BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Improvements to roads & drains from D Pillappa layout to amruthahalli lake bund road in amruthahalli in ward no.07 Byataranapura.

[Pick the date]

Estimate cost: 25.00 lakhs

Ward 7 byatarayanapura

Name of Work:- Improvements to roads & drains from D Pillappa layout to amruthahalli lake bund road in amruthahalli in ward no.07 Byataranapura.
Estimated Cost:- 25.00 Lakhs

S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4.00	5.00	6.00	7.00	8.00	9.00	10
1	Removing and refixing stone slabs of drains and pointing in CM(1:3), Pg No.27,								
	Covering slab								
	Mungurappa Layout								
	Main road		1	130.00	0.75		97.50		
					TOTAL		97.50		
	Deduct 10% damage slab						9.75		
					TOTAL		**87.75**	111.30	**9767.00**
	Basic Rate:	sqm	**105.00**						
	Area Weightage @ 6%		6.30						
	Total		**111.30**						
2	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (Pg No.140.Item No.18.47)								
	Cross Road		1.00	120.00	5.00	0.30	180.00		
	Cross Road towrads takkur muslim colony		1.00	101.00	5.00	0.30	151.50		
					TOTAL		**331.50**	952.94	**315900.00**
	Basic Rate:	cum	**899.00**						
	Area Weightage @ 6%		53.94						
	Total		**952.94**						

3	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. (Pg No.143.Item No.19.1)								
	Cross Road		1.00	120.00	5.00	0.30	180.00		
	Cross Road towrads takkur muslim colony		1.00	101.00	5.00	0.30	151.50		
	Desilting of drains								
	Mungurappa Layout								
	Main road		1.00	130.00	0.60	0.60	46.80		
	Placing of Kerb								
	Mungurappa Layout								
	Main Road		1.00	130.00	0.45	0.10	5.85		
					TOTAL		**384.15**	137.80	**52936.00**
	Basic Rate:	cum	**130.00**						
	Area Weightage @ 6%		7.80						
	Total		**137.80**						
4	KSRB4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite matel coarse aggregates @ 0.878 cum and fine aggragtes @ 0.53cum, machine mixed concrete laid in layers not eceeding 15 cms, thick well compacted, in foundation, plinth and cills including cost of all materials, labour HOM machinery curing complate as per specifications. (Page No. 12. Item No. 4.6)								
	Coping for drains								
	Mungurappa Layout								
	Main Road		1	130.00	0.15	0.10	1.95		
					TOTAL		**1.95**	5747.32	**11207.27**
	Basic Rate:	cum	5422.00						
	Area Weightage @ 6%		325.32						
	Total		**5747.32**						

5	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 **(Pg.No.13, It.4.2)**								
	Cross Road		1.00	120.00	5.00	0.15	90.00		
	Cross Road towrads takkur muslim colony		1.00	101.00	5.00	0.15	75.75		
	Below Kerb								
	Mungurappa Layout								
	Main Road		1.00	130.00	0.45	0.10	5.85		
					TOTAL		**171.60**	5505.64	**944768.00**
	Basic Rate:	cum	5194.00						
	Area Weightage @ 6%		311.64						
	Total		5505.64						
6	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / **rectangular sla**bs **/side walls** polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32)								
	SIDE								
	Cross Road	1x2	2.00	120.00		0.10	24.00		
	Cross Road towrads takkur muslim colony	1x2	2.00	101.00		0.10	20.20		
							44.20	483.36	**21365.00**
	Basic Rate:	Sqm	456.00						
	Area Weightage @ 6%		27.36						
	Total		483.36						

7	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavements using grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregate at 0.46 cum, coarse and fine aggregate confirming to IS:383-2016, with superplastisiser @3lts confirming to IS9103-2008 mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades textured machine, and curing including cost of all materials, labour, hire charges of machineries, all lead and lift charges etc.., complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) **(Pg.No.176, It.22.6.1)**									
	Basic Rate:	cum	4916.00						
	Area Weightage @ 6%		294.96						
	Total		5210.96						
	Cross Road		1.00	120.00	5.00	0.10	60.00		
	Cross Road towrads takkur muslim colony		1.00	101.00	5.00	0.10	50.50		
					TOTAL		**110.50**	5210.96	**575812.00**
8	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cst of generator, HOM of machinery screed vibaratory, power floater, blade and disc etc., with all leads and lift.**(Pg.No.176, It.22.7)**								
	Cross Road		1.00	120.00	5.00		600.00		
	Cross Road towrads takkur muslim colony		1.00	101.00	5.00		505.00		
					TOTAL		**1105.00**	72.08	**79649.00**
	Basic Rate:	sqm	68.00						
	Area Weightage @ 6%		4.08						
	Total		72.08						
9	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete10cms thick.(Pg No.27, Item								
	Damage covering slab						9.75		
					TOTAL		**9.75**	966.72	**9426.00**
	Basic Rate:	**sqm**	**912.00**						
	Area Weightage @ 6%		**54.72**						
	Total		**966.72**						

10	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 of size 450x150x500 mm and finished with CM 1:3 plastering and finishing cutting etc., complete.Pg No. 27, Item No.5.29.1								
	Mungurappa Layout								
	Main Road		1	130			130.00		
							130.00		
			TOTAL(total length/0.45)				**295.00**	467.46	**137901.00**
	Basic Rate:	Nos	441.00						
	Area Weightage @ 6%		26.46						
	Total		**467.46**						
11	KSRB 5-9.1:Providing and applying ready mix priming coat over ocncrete / masonry, / asbestos cement sheet / plastered surfaces includding preparing the surface after thorougly cleaning of oil, grease, dirt and other foreign matter and sand papering including cost of materials, labour compelte as per specifications. Page No. 124 / Item No. 15.80								
			295.00		0.45		132.75		
					TOTAL		**132.75**	39.22	**5207.00**
	Basic Rate:	sqm	37.00						
	Area Weightage @ 6%		2.22						
	Total		**39.22**						

12	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 136, item No. 17.1)								
	Basic Rate	cum	**57.00**				715.65	94.34	**67515.00**
	Rs. 2.50 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28TonneX		**32.00**						
	Total		**89.00**						
	Add Area Weightage6%		**5.34**						
			94.34						
13						**Sub Total**			**2231453.27**
14				**Add 12% GST charges**					**267774.39**
15				**Miscelleneous charges**					**772.33**
16						**Total**			**2500000.00**

1)This is certified that the work spot comes under BBMP limits only.
2) The work spot is inspected by me
3) The items Provided in the Estimate are quite Essential
4)The rates are as per CSR of 2018-19 year of PWD Bangalore Circle.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

18/03

Executive Engineer
Byatrayanapura Division
B.B.M.P.

18/03

Administrative Approval
Accorded For Rs 25 'w Rachehands
Head of A/C P 3226
CER NO :110 Dt:20.03.2020

TA

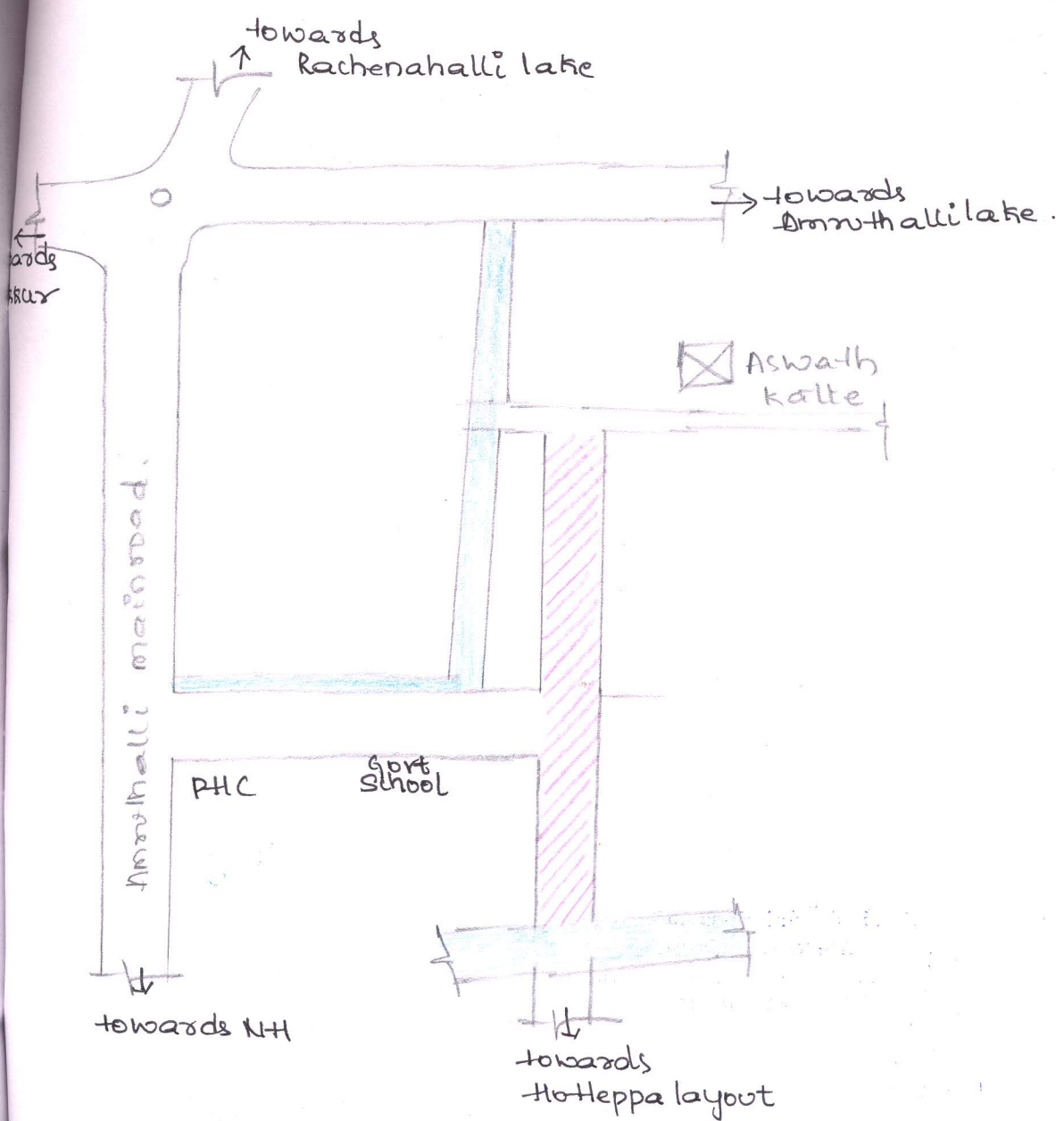
CE (YNK)

Technical Sanction
Accorded For Rs25 'w Rachehands
Head of A/C P 3226
CER NO :308 Dt:20.03.2020

TA

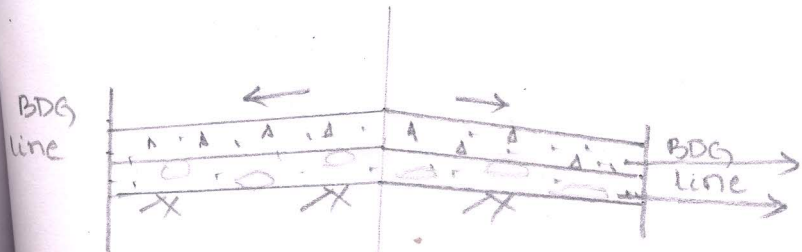
CE (YNK)

Name of Work: Improvements to roads and drains from D-pillappa layout to amruthalli lake bund road in Amruthalli in ward no.07



CROSS ROAD PLAN

Pillagalure
cc-road



CROSS-SECTION OF CC PAVEMENT

Ashok.N.D
AE(W)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092